



EURO-NOTES 2008

Working Group 2

NOTES Research

Co-Chairpersons

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Group participants

- Gastroenterologists
- Surgeons
- Industry
- Engineers

Only n=4 had animal experiment experience



How should we do research

- do it safely
- IRB approval
- just enough, but not too many pigs
- join with your research into existing centers



Preferred areas of research I

- IIIIII • Tools, device development
 - automated techniques
- II • Endoscope development
- IIII • Access /closure
 - all in one
 - safe
- II • Safety/contamination



Preferred areas of research II

- Indications NOTES
 - procedures without general anaesthesia
 - procedures with “no pain”
- Indication / Product development for specific patient groups



Safe access

Use Ideal

- | | |
|--------|---|
| IIIIII | • PEG like approach |
| I | • Straight with needle |
| III | • EUS-guided access |
| IIIIII | • Pneumoperitoneum Verres needle + access |
| III | • Pneumoperitoneum, needle knife-balloon |
| | • Submucosal tunnelling |



Infection

Decontamination

Sterilization

What is the bacterial load of endoscopes ???

Possible infection rate



Infection

- What are the best antibiotics ??
- Endoscopes
 - produce sterilize-able scopes
 - exchangeable working channels
- Areas of NOTES vary with infection risk
 - rectum / colon – how to sterilize
 - stomach – better overtubes



Recommendations

- Develop comprehensive list of centers and subjects of research by county
- Make information available on website
- Publish current ongoing research, so that people can contact each other
- Provide courses and help to write grants
- Templates for non-disclosure agreements
- Report of invention for patents
- Country society should provide information



Recommendations

- Open discussion platform – website?
 - should include all interested institutions, profile
- Exchange ideas
- Perform joint studies phase 2
- Form possible partnerships
- Initiate national meetings/workshops with these specific international colleagues



Recommendations

- Inter-country cooperation for research should be promoted
- Specific grants of such multicenter, multi-country collaboration